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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/496,974	•	02/02/2000	Kazushige Yonenaga	13700-0225	6926
23370	7590	05/26/2004		EXAMINER	
JOHN S. P			HSU, ALPUS		
KILPATRI	CK STOCE	KTON, LLP			
1100 PEAC	HTREE S'	TREET	ART UNIT	PAPER NUMBER	
SUITE 2800)			2665	- 4
ATLANTA, GA 30309		309		DATE MAILED: 05/26/2004	, / · · · · · · · · ·

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No	Applicant(s)	
	09/496,974	YONENAGA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alpus H. Hsu	2665	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	rith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replied in the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statuted the period for reply will be	136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 04 I	<u> March 2004</u> .		
	is action is non-final.		
3) Since this application is in condition for allows	ance except for formal ma	ters, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	O. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1 and 3-23</u> is/are pending in the app	lication.		
4a) Of the above claim(s) is/are withdra		•	
5)⊠ Claim(s) <u>1,3-20,22 and 23</u> is/are allowed.			
6)⊠ Claim(s) <u>21</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	er.		
10) The drawing(s) filed on is/are: a) ac		by the Examiner.	
Applicant may not request that any objection to the		· ·	
Replacement drawing sheet(s) including the correct		• •	
11) The oath or declaration is objected to by the E	·	• • • • • • • • • • • • • • • • • • • •	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	8 119(a)-(d) or (f)	
a) All b) Some * c) None of: 1. Certified copies of the priority document	its have been received.		
3. Copies of the certified copies of the prior			
application from the International Burea	•	Troceived in this Hadional Stage	
* See the attached detailed Office action for a lis		received.	
·	·		
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date Informal Patent Application (PTO-152)	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	6) Other:		

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- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over JAEGER in U.S. Patent No. 5,148,383 in view of TAKAHASHI et al. in U.S. Patent No. 5,809,039.

Referring to claim 21, JAEGER discloses a differential encoder comprising an EXOR circuit (30) and a D-type flip-flop (34) as claimed. JAEGER differs from claim 21 in that it does not teach a specific D-type flip-flop formed by a master latch and a slave latch. However, the use of specific D-type flip-flop formed by a master latch and a slave latch is well known in the art and commonly applied in communications field for providing the feedback control.

TAKAHASHI et al., for example, from the similar field of endeavor, discloses a specific D-type flip-flop formed by a master latch and a slave latch for providing the feedback control to shorten the internal time delay (col. 4, line 53 to col. 5, line 13) as claimed. Therefore, it would have been obvious to a person with ordinary skill in the art at the time of the invention to incorporate

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the specific D-type flip-flop formed by a master latch and a slave latch in TAKAHASHI et al. into the differential encoder of JAEGER to achieve the advantage of shortening the internal delay time for the purpose of improving the speed and efficiency of the encoding device.

- 4. Claims 1, 3-20, 22 and 23 are allowed.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alpus H. Hsu whose telephone number is (703)305-4377. The examiner can normally be reached on M-F (5:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D. Vu can be reached on (703)308-6602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AHH

Alpus H. Hsu Primary Examiner Art Unit 2665